SOIL MECHANICS TESTING FACILITY SPECIFIC GRAVITY WORK SHEET

	Temperature Tx, Deg. C	Weight in Grams	Pycnometer Number	Laboratory Sample Number
1	Pycnometer 1/3 full of water plus soil		(3 F
2	Pycnometer 1/3 full of water		$G_{s} = \frac{W \times F^{*}}{W_{2} + W - W_{1}} = \frac{(}{}$) × ()
3	Soil, (W) = (1) - (2)			7
4	Pycnometer full of water at Tx, (W2)			
5	$W_2 + W = (4) + (3)$			
6	Pycnometer full of water plus soil at Tx, (W1)		Gs ===	=
7	$W_2 + W - W_1 = (5) - (6)$			
	Temperature Tx, Deg. C	Weight in Grams	Pycnometer Number	Laboratory Sample Number
1	Pycnometer 1/3 full of water plus soil			
2	Pycnometer 1/3 full of water		$G_{s} = \frac{W \times F}{W_{2} + W - W_{1}} = \frac{(}{}$) x ()
3	Soil, $(W) = (1) - (2)$, , , , , , , , , , , , , , , , , , ,	,
4	Pycnometer full of water at Tx, (W2)			
5	$W_2 + W = (4) + (3)$			
6	Pycnometer full of water plus soil at Tx, (W1)		Gs ==	=
7	$W_2 + W - W_1 = (5) - (6)$			
	Temperature Tx, Deg. C			
	remperature 1x, beg. o	Weight in Grams	Pycnometer Number	Laboratory Sample Number
1	Pycnometer 1/3 full of water plus soil			•
2	Pycnometer 1/3 full of water		$G_{s} = \frac{W \times F}{W_{2} + W - W_{1}} = \frac{(}{}$) × ()
3	Soil, $(W) = (1) - (2)$		112 1 11	,
4	Pycnometer full of water at Tx, (W2)			
5	$W_2 + W = (4) + (3)$			
6	Pycnometer full of water plus soil at Tx, (W1)		Gs ==	=
7	$W_2 + W - W_1 = (5) - (6)$			
*Ratio of density of water at test temperature, Tx, to the density of water at 20°C.				
Com	pleted byDate		Checked by	Date

Computed by _______ Pate ________ Recorded by ______ Date _____